

ABSTRACT

A nonaqueous pressure-sensitive adhesive for a medicinal tape preparation for percutaneous absorption comprising (a) a support, (b) a pressure-sensitive adhesive layer containing a drug and a nonaqueous pressure-sensitive adhesive and (c) a release film laminated in that order, and a medicinal tape preparation for percutaneous absorption comprising the adhesive. The nonaqueous pressure-sensitive adhesive may comprise a copolymer obtained by copolymerization of a (meth)acrylic monomer having an acetoacetyl group in the molecule and one or more monomers from among other (meth)acrylic monomers without acetoacetyl groups and copolymerizable vinyl monomers, in a nonaqueous solvent. Suitable (meth)acrylic monomers having an acetoacetyl group in the molecule are acetoacetoxyalkyl methacrylates, and especially 2-acetoacetoxyethyl methacrylate. The copolymer nonaqueous pressure-sensitive adhesive of the invention, comprising a (meth)acrylic monomer having an acetoacetyl group as a constituent monomer, is capable of containing large amounts of lipophilic oily substances in the pressure-sensitive adhesive layer, and during heat drying, the acetoacetyl groups undergo self-crosslinking to form a network structure as the solvent evaporates off, so that large amounts of oily substances such as the plasticizer can be included in the network structure. The pressure-sensitive adhesive of the invention

uses no polyamine derivatives, isocyanate compounds, polyvalent metal chelate compounds, etc. as crosslinking agents, and therefore toxicity is not a concern and skin is not irritated. A medicinal tape preparation for
5 percutaneous absorption of the invention has superior adhesive strength and cohesive strength, and is highly safe with low skin irritation. It also has excellent drug release and percutaneous absorption properties.